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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,655	04/25/2008	Toshio Miyata	SHIM-019	6585
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1900 UNIVERS	SITY AVENUE	HILL, KEVIN KAI		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/582,655	MIYATA ET AL.
Office Action Summary	Examiner	Art Unit
	KEVIN K. HILL	1633
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).
Status		
1) ■ Responsive to communication(s) filed on <i>Apr</i> 2a) ■ This action is FINAL . 2b) ■ Th 3) ■ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, բ	
Disposition of Claims		
4) Claim(s) 1-19 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-19 are subject to restriction and/or	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	ccepted or b) objected to by the drawing(s) be held in abeyance. Sometion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applic ority documents have been rece au (PCT Rule 17.2(a)).	ation No ived in this National Stage
Attachment(s) 1) \[\sum \text{Notice of References Cited (PTO-892)} \]	4) ☐ Interview Summa	ary (PTO-413)
2) Notice of Preferences Sited (175 662) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail	

Election/Restrictions

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1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-7, drawn to a non-human mammalian disease model overexpressing a megsin gene, a gene encoding the receptor for advanced glycation end-products, and an inducible nitric oxide synthase gene.

Group II, claim(s) 8, drawn to a method of making a transgenic non-human mammalian disease model overexpressing a megsin gene, a gene encoding the receptor for advanced glycation end-products, and an inducible nitric oxide synthase gene.

Group III, claim(s) 9 and 15, drawn to a method for evaluating the therapeutic effect of a test compound on kidney function disorder, the method comprising the step of determining the relieving effect on the kidney function disorder.

Group IV, claim(s) 10 and 17, drawn to a method for evaluating the therapeutic effect of a test compound on kidney function disorder, the method comprising the step of measuring at least any one of kidney-to-body weight ration, urine albumin level, blood triglyceride level, and urine 8-OHdG level in the disease model animal.

Group V, claim(s) 11-12 and 18, drawn to a method for evaluating the therapeutic effect of a test compound on kidney function disorder, the method comprising the step of determining whether the mesangial matrix of the disease model animal is altered or whether the alteration is reduced.

Group VI, claim(s) 13-14 and 19, drawn to a method for evaluating the therapeutic effect of a test compound on kidney function disorder, the method comprising the step of determining whether the tubular interstitium of the disease model animal is altered or whether the alteration is reduced.

Group VII, claim(s) 16, drawn to a method for evaluating the therapeutic effect of a test compound on kidney function disorder, the method comprising the step of determining the glucose and/or insulin level in the disease model animal.

2. The inventions listed as Groups I-VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical feature for the following reasons:

A 371 case is considered to have unity of invention only when there is a technical relationship among those inventions involving one or more of the same or corresponding technical features. The expression "special technical feature' means those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art. In the instant application, the Groups do not share the same special technical feature a priori because the Group I disease model comprises non-transgenic animals, as evidenced by Claim 2 requiring introduced genes. Similarly, Groups III-VII do not require the methods to be practiced on a transgenic animal. In contrast, the Group II method is directed to making a transgenic animal. Furthermore, the Groups do not share a corresponding technical feature that defines a contribution over the prior art because Yamamoto et al (J. Clin. Invest. 108(2):261-268, 2001; of record) taught a transgenic mouse structurally indistinguishable from Claim 1. Since it can be easily arrived at by a person skilled in the art to evaluate curative medicines of renal dysfunction by administering various tests with test compounds to a transgenic mouse, each of the inventions relevant to Claims 9, 10, 11, 13 and 16 do not appear to involve an inventive step. Further still, each of the Groups II-VII methods require different process steps, require the use of different reagents and have different objectives, and thus do not share a special or corresponding technical feature.

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the

Group II method may be practiced to make a multitude of distinctly different triple transgenic non-human mammals (specification; e.g. pg 9, last ¶-pg 10, ¶2; pg 12, line 5).

Inventions II-VII are directed to related processes. The related inventions are distinct if: (1) the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect; (2) the inventions do not overlap in scope, i.e., are mutually exclusive; and (3) the inventions as claimed are not obvious variants. See MPEP § 806.05(j). In the instant case, the inventions as claimed require different process steps, require the use of different reagents and have different objectives. Furthermore, the inventions as claimed do not encompass overlapping subject matter and there is nothing of record to show them to be obvious variants.

Inventions I and III-VII are related as product and processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, the methods may be practiced on a multitude of distinctly different disease models and the product may be used in materially different processes, as evidenced by the claims.

The Examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained.

Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and/or examination burden if restriction were not required because at least the following reason(s) apply: a search for non-transgenic animals would not be co-extensive with a search for transgenic animals. Further, a reference rendering a non-transgenic animal as anticipated or obvious over the prior art would not necessarily also render a transgenic animal as anticipated or obvious over the prior art. Because these inventions are distinct for reasons given above, and because a search of one does not necessarily overlap with that of another, it would be unduly burdensome for the examiner to search and examine all the subject matter being sought in the presently pending claims and thus, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN K. HILL whose telephone number is (571)272-8036. The examiner can normally be reached on Monday through Friday, between 9:00am-6:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph T. Woitach can be reached on 571-272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin K. Hill/

Examiner, Art Unit 1633